Technische Universität Berlin offers an open position:

2 positions - Research Assistant - salary grade 13 TV-L Berliner Hochschulen
under the reserve that funds are granted - part-time employment may be possible

Faculty III - Institute of Biotechnology / Bioprocess Engineering
Reference number: III-158/20 (starting at the earliest possible / until 30/04/23 / closing date for applications 08/05/20)

Working field: The KIWI-biolab is a coordinated effort of 11 international excellent scientists to tackle existing issues and exploit the potential of emerging ML and AI tools. We aim to create an intelligent lab able to conceive and perform experimental campaigns for the development of biomanufacturing processes for new products without human intervention. To this aim, the main objectives of the KIWI-biolab are:

- Building an international group of excellent scientists in AI for biotechnological applications
- Creating and developing new tools required to boost the development of sustainable and environmentally friendly production processes
- Keeping Germany in the lead regarding autonomous operation of parallel cultivation robots
- Broadening and consolidating an international network for a long-term operation of the KIWI-biolab

3 PhD candidates will work in different task forces in the Project:

- integration of different data sources of biotechnological processes
- development of a data analysis pipeline for forecast models for biotechnological processes
- development and testing of such models
- optimization of process parameters and experiment design
- possibility to perform a dissertation project

Requirements:

- successfully completed university degree (Master, Diplom or equivalent) in biotechnology, bioprocess engineering, computer science, mechanical engineering, control engineering or comparable courses of studies
- sound Python programming knowledge
- experience or knowledge in the field of biotechnology and fermentation
- very good knowledge of written and spoken English

Desirable are:

- practical experience
  - with Laboratory Information and Management Systems (LIMS)
  - with the integration and digital control of laboratory equipment
  - in the field of laboratory automation, especially liquid handling
  - with model-based experimental design, Design of Experiments
  - in the simulation of kinetic models
  - with cultivation systems on a laboratory and small scale
  - in the field of fermentation on a laboratory scale
  - in data analysis/ machine learning and optimization
  - in modelling and design of downstream purification for microbial or mammalian cultures

Please send your written application with the reference number and the usual documents (in particular curriculum vitae, job references and proof of qualification) to Technische Universität Berlin - Der Präsident - Fakultät III, Institut für Biotechnologie, FG Bioverfahrenstechnik, Prof. Dr. Peter Neubauer, Sekr. ACK24, Ackerstraße 76, 13355 Berlin or by e-mail peter.neubauer@tu-berlin.de.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Please send copies only. Original documents will not be returned.

The vacancy is also available on the internet at http://www.personalabteilung.tu-berlin.de/menue/jobs/